



PTO/SB/21 (09-04)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

5

Application Number	10/659,152
Filing Date	September 10, 2003
First Named Inventor	Seemeen S. Karimi
Art Unit	2882
Examiner Name	Thomas, Courtney D.
Attorney Docket Number	56230-598 (ANAK-240)

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Issue Fee Transmittal Comments on Examiner's Statement of Reasons for Allowance
Remarks _____		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	McDermott Will & Emery LLP		
Signature	<i>Elizabeth E. Kim</i>		
Printed name	Elizabeth E. Kim		
Date	October 4, 2005	Reg. No.	43,334

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	<i>Deborah Celeste</i>		
Typed or printed name	Deborah Celeste	Date	October 4, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Karimi et al.

Serial No: 10/659,152

Filing Date: September 10, 2003

Title: HELICAL INTERPOLATION FOR AN ASYMMETRIC MULTI-SLICE SCANNER

Examiner: Thomas, Courtney D.

Art Unit: 2882

Attorney Docket: 56230-598 (ANAK-240)

Customer No: 23630

CERTIFICATE OF FACSIMILE

I hereby certify that this correspondence is being sent by facsimile to: 571-273-2885, Mail Stop: Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Date: 10-4-05
Deborah Celeste**COMMENTS ON EXAMINER'S STATEMENT OF
REASONS FOR ALLOWANCE UNDER 37 CFR 1.104(e)**

Via Facsimile: 571-273-2885

Mail Stop Issue Fee

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Applicants note with appreciation Applicants' receipt of a Notice of Allowance and a Notice of Allowability dated July 29, 2005, for the above-referenced case. In the Notice of Allowance and in the Notice of Allowability, claims 1-24 of the above-referenced case have been allowed.

An Examiner's Statement of Reasons for Allowance was attached to the Notice of Allowability. In section 3, the Examiner stated that, per claims 1 and 16 and dependent claims 2-15 and 17-24 respectively, the Examiner found no reference in the prior art that disclosed or made obvious a CT system (and corresponding method)

comprising:

"an interpolator, configured to interpolate projection data from each detector element onto a slice plane by multiplying data with helical interpolation weights; wherein for projection data resulting from detector rays lying within a symmetric region of an X ray beam, the helical interpolation weights that weigh the data from complementary rays in proportion to the distance from each detector element row to the slice plane; and wherein for projection data resulting from detector rays that lie within an asymmetric region of the X-ray beam, the helical interpolation weights are direct interpolation weights that weigh the data at a given azimuthal angle from different rows in proportion to the distance from each detector element row to the slice plane, as recited in independent claims 1 and 16."

Applicants respectfully submit that, in view of the plain language of the allowed claims, the paragraph set forth above between quotation marks should be modified as follows:

"an interpolator, configured to interpolate projection data from each detector element onto a slice plane by multiplying data with helical interpolation weights; wherein for projection data resulting from detector rays lying within a symmetric region of an X ray beam, the helical interpolation weights are complementary interpolation weights that weigh the data from complementary rays in proportion to the distance from each detector element row to the slice plane; and wherein for projection data resulting from detector rays that lie within an asymmetric region of the X-ray beam, the helical interpolation weights are direct interpolation weights that weigh the data at a given azimuthal angle from different rows in proportion to the distance from each detector element row to the slice plane, as recited in independent claims 1 and 16."

Applicants further note that independent claim 16 is directed to "A method of reconstructing at least one image of an object."

Entry of the Statement of Reasons for Allowance should not be construed as any agreement with or acquiescence by Applicants with regard to the reasoning stated by the Examiner. It is submitted that the scope of the allowable claims should be readily apparent from the plain language of the claims, the specification, and the prosecution history, without need for consideration of the Examiner's Statement.

Applicants submit that claims 1-24 in the above-referenced case may be allowable for reasons in addition to, or in lieu of, those identified by the Examiner in the Statement of Reasons for Allowance.

Further, Applicants hereby disavow any admissions regarding the prior art status of any document in the record.

Respectfully submitted,



Elizabeth E. Kim, Reg. No. 43,334
McDermott, Will & Emery
28 State Street
Boston, MA 02109
(617) 535-4411
(617) 535-3800

Date: October 4, 2005

BST99 1475430-1.056230.0598